

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: Unknown )  
Filing Date: Unknown )  
Priority Date: 13 July 2000 )  
Applicant: NEVILLE, Richard )  
For: ON SCREEN DISPLAY )

**PRELIMINARY AMENDMENT**

Director For Patents  
Box: New Application  
Washington, D.C. 20231

Dear Sir:

This is a preliminary amendment to the enclosed application entitled "On Screen Display" claiming priority to British Patent Application No. 0017159.5 filed 13 July 2000.

**In the Specification:**

Please amend the specification as follows:

Page 1, after the title insert the following header and paragraph:

**--CROSS-REFERENCE TO RELATED APPLICATION**

This application claims priority to British Patent Application No. 0017159.5 filed 13 July 2000.--;

Page 1, prior to the first paragraph, add the Header:

**--BACKGROUND OF THE INVENTION--**

Page 1, line 14, change "programmes" to --programs--; before line 21 insert the Header:

**--SUMMARY OF THE INVENTION--**

Page 2, line 30, change "characterised" to --characterized--.

Page 3, lines 22, 24 and 25 , change "colour" to --color--.

Page 4, before the first line, add the Header:

**--DESCRIPTION OF THE DRAWINGS--;**

Page 4, before line 7, add the Header:

**--DESCRIPTION OF THE PREFERRED EMBODIMENTS--.**

Page 4, line 19 change "colour" to --color--.

Page 6, add the following paragraph after the last line:

--While the invention has been described with a certain degree of particularity, it is manifest that many changes may be made in the details of construction and the arrangement of components without departing from the spirit and scope of this disclosure. It is understood that the invention is not limited to the embodiments set forth herein for purposes of exemplification, but is to be limited only by the scope of the attached claim or claims, including the full range of equivalency to which each element thereof is entitled.--

In the Claims:

1. (Amended) A broadcast data receiver, said receiver [including] comprising: recording media on which received data can be stored for subsequent selective retrieval, control means for controlling the operation of the recording media, processing means for processing of the received data to generate video and/or auxiliary data for display on a display screen [(3)] and [characterised in that] wherein the receiver further includes a means to generate a display on screen [(3)], said display generated upon the user selection of one of a range of operating functions of the recording media to indicate to a user that the recording media is performing a function.

2. (Amended) A broadcast data receiver according to claim 1 [characterised in that the] wherein said recording media is a hard disk drive.

3. (Amended) A broadcast data receiver according to claim 1 [characterised in that the] wherein said display is generated at the time of user selection of a receiver operating function and ends when the receiver operating function has ended.

4. (Amended) A broadcast data receiver according to claim 1 [characterised in that the] wherein said display is generated a pre-determined time period after user selection of a receiver operating function.

5. (Amended) A broadcast data receiver according to claim 1 [characterised in that the] wherein said display is generated in a window [(2)] on [the] said display screen [(3)].

6. (Amended) A broadcast data receiver according to claim 1 [characterised in that the] wherein said generated display alters in appearance during the passage of time for which the selected operating function is being performed.

7. (Amended) A broadcast data receiver according to claim 6 [characterised in that the] wherein said receiver calculates the time for completion of the selected operating function and the appearance of the generated display alters at any instant with respect to the start and/or completion of the calculated time.

8. (Amended) A broadcast data receiver according to claim 1 [characterised in that the] wherein said generated display includes a bar [(6)] and movable indicator means is provided in, on and/or adjacent [the] said bar [(6)] to indicate to the user the passage of time of the selected operating function.

9. (Amended) A broadcast data receiver according to claim 8 [characterised in that the] wherein said movable indicator means is an arrow or pointer [(16)] that moves relative to the length of [the] said bar [(6)] during the passage of time of the operating function being performed.

10. (Amended) A broadcast data receiver according to claim 8 [characterised in that the] wherein said movable indicator means is a [colour] color interface which moves relative to the length of [the] said bar [(6)] during the passage of time of the operating function being performed, said [colour] color interface distinguishable from the [colour] color of [the] said bar.

11. (Amended) A broadcast data receiver according to claim 7 [characterised in that the] wherein said movable indicator means includes a plurality of characters or lines which become visible or invisible during the passage of time of the operating function being performed.

12. (Amended) A broadcast data receiver according to claim 1 [characterised in that] wherein a text message [(4)] is provided in addition to or as part of the generated display to indicate to the user that a selected operating function is being performed.

13. (Amended) A broadcast data receiver according to claim 1 [characterised in that the] wherein said display is generated on a screen [(3)] when any of play, record, search receiver functions are being performed.

14. (Amended) A method of generating a display for a broadcast data receiver[, said broadcast data receiver including] having recording media on which received data can be stored for subsequent, selective retrieval, control means for controlling the operation of the recording media, processing means for processing of the received data to generate video and/or auxiliary data for display on a display screen [(3), and characterised in that] said method includes the steps of:

said receiver calculating the time for completion of an operating function selected by the user using said control means[,];

generating a display on [the] said display screen [(3)] representing, at least in part, the time for completion of said user-selected operating function; and

said generated display in whole or part altering in appearance during the passage of calculated time to indicate to the user the stage at any instant with respect to the start and/or completion of the selected function.

15. (Amended) A method according to claim 14 [characterised in that the] wherein said generated display includes a bar [(6)] and an indicator means is provided to move in, on and/or adjacent the bar to indicate to the user the passage of time of the selected operating function.

16. (Amended) A method according to claim 15 [characterised in that] wherein the movable indicator is an arrow or pointer [(16)], said arrow/pointer moving relative to the length of [the] said bar during the passage of time of the operating function being performed.

17. (Amended) A method according to claim 15 [characterised in that] wherein the movable indicator is a [colour] color interface which moves relative to the length of [the] said bar [(6)] during the passage of time of the operating function being performed, the [colour] color interface being distinguishable from the [colour] color of [the] said bar.

18. (Amended) A method according to claim 15 [characterised in that the] wherein said indicator means includes a plurality of characters or lines which become visible or invisible during the passage of time of the operating function being performed.

#### REMARKS

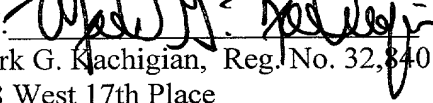
Attached are the marked up versions of the claims and new paragraphs as required in Section 1.121(4) (ii).

The application should now be in condition for examination, which is respectfully requested.

Respectfully Submitted

HEAD, JOHNSON & KACHIGIAN

Dated: 6 July 2001

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New Header to be inserted on Page 1, before line 1:

## **CROSS-REFERENCE TO RELATED APPLICATION**

This application claims priority to British Patent Application No. 0017159.5 filed 13 July 2000.--;

## **BACKGROUND OF THE INVENTION**

Replacement paragraph for Page 1:

In a new form of broadcast data receivers there is provided a memory device such as a hard disk drive (HDD) upon which received data can be stored for subsequent retrieval. The broadcast data receiver, in addition to receiving the data is provided with processing means to enable the received data to be processed to generate video, audio and/or auxiliary services which are representative, in one mode of operation, as television programs and which are displayed via a display screen such as that of a television set. The receiver can process the data upon reception or from storage in the HDD.

New paragraph Header to be inserted into Page 1 before line 21:

## **SUMMARY OF THE INVENTION**

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as  $\epsilon \rightarrow 0$ . It is shown that the solutions of the system (1) converge to the solutions of the system (2) as  $\epsilon \rightarrow 0$ .

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as  $\epsilon \rightarrow 0$ . It is shown that the solutions of the system (1) converge to the solutions of the system (2) as  $\epsilon \rightarrow 0$ .



Replacement paragraph for page 3:

Preferably the movable indicator is a color interface which moves relative to the length of the bar during the passage of time of the operating function being performed, the color interface being distinguishable from the color of the bar.

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Headers to be inserted into Page 4:

Before the first line:

**"DESCRIPTION OF THE DRAWINGS";**

Before line 7:

**"DESCRIPTION OF THE PREFERRED EMBODIMENTS".**

Replacement paragraph for Page 4:

Referring to Fig. 1 there is illustrated a window display 2 of the type which can be generated on a display screen 3, partially shown, at a particular location on the display screen such as the bottom, top or wherever suited and which allows video 5 which has already been displayed on the display screen to still be at least partially viewable. The window display comprises text 4 which illustrates to the user the subject matter of the information being displayed in the window, in this case relating to a particular video service, "Television on Demand (TVOD)", and to the status of a recording medium which is part of the apparatus for generating and processing video.

A bar 6 is also illustrated which has two portions 8, 10 which contrast in color. The length of the time bar 12 illustrates the length of time for a particular operation of the hard disc drive to be completed. The respective lengths of the portions 8, 10 change during time, with the line 14, which is the interface between the portions moving as indicated by arrow 16 to illustrate the particular time taken from the start 15 and time left to the finish 17 in the overall time for completion of the function. Thus, the time bar which is generated firstly illustrates to the viewer or user of the apparatus that the hard disc drive is performing the selected function by the user and, secondly, illustrates the time which has elapsed and also the time still required for the function to be performed. The provision of the display

New paragraph for page 6 to be inserted after the last line:

While the invention has been described with a certain degree of particularity, it is manifest that many changes may be made in the details of construction and the arrangement of components without departing from the spirit and scope of this disclosure. It is understood that the invention is not limited to the embodiments set forth herein for purposes of exemplification, but is to be limited only by the scope of the attached claim or claims, including the full range of equivalency to which each element thereof is entitled.

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7. (Amended) A broadcast data receiver according to claim 6 wherein said receiver calculates the time for completion of the selected operating function and the appearance of the generated display alters at any instant with respect to the start and/or completion of the calculated time.

8. (Amended) A broadcast data receiver according to claim 1 generated display includes a bar and movable indicator means is provided in, on and/or adjacent the bar to indicate to the user the passage of time of the selected operating function.

9. (Amended) A broadcast data receiver according to claim 8 wherein said movable indicator means is an arrow or pointer that moves relative to the length of said bar during the passage of time of the operating function being performed.

10. (Amended) A broadcast data receiver according to claim 8 wherein said movable indicator means is a color interface which moves relative to the length of said bar during the passage of time of the operating function being performed, said color interface distinguishable from the color of said bar.

11. (Amended) A broadcast data receiver according to claim 7 wherein said movable indicator means includes a plurality of characters or lines which become visible or invisible during the passage of time of the operating function being performed.

12. (Amended) A broadcast data receiver according to claim 1 wherein a text message is

1. (Amended) A broadcast data receiver, said receiver comprising: recording media on which received data can be stored for subsequent selective retrieval, control means for controlling the operation of the recording media, processing means for processing of the received data to generate video and/or auxiliary data for display on a display screen and wherein the receiver further includes a means to generate a display on screen, said display generated upon the user selection of one of a range of operating functions of the recording media to indicate to a user that the recording media is performing a function.

2. (Amended) A broadcast data receiver according to claim 1 wherein said recording media is a hard disk drive.

3. (Amended) A broadcast data receiver according to claim 1 wherein said display is generated at the time of user selection of a receiver operating function and ends when the receiver operating function has ended.

4. (Amended) A broadcast data receiver according to claim 1 wherein said display is generated a pre-determined time period after user selection of a receiver operating function.

5. (Amended) A broadcast data receiver according to claim 1 wherein said display is generated in a window on said display screen.

6. (Amended) A broadcast data receiver according to claim 1 wherein said generated display alters in appearance during the passage of time for which the selected operating function is being performed.

7. (Amended) A broadcast data receiver according to claim 6 wherein said receiver calculates the time for completion of the selected operating function and the appearance of the generated display alters at any instant with respect to the start and/or completion of the calculated time.

8. (Amended) A broadcast data receiver according to claim 1 generated display includes a bar and movable indicator means is provided in, on and/or adjacent the bar to indicate to the user the passage of time of the selected operating function.

9. (Amended) A broadcast data receiver according to claim 8 wherein said movable indicator means is an arrow or pointer that moves relative to the length of said bar during the passage of time of the operating function being performed.

10. (Amended) A broadcast data receiver according to claim 8 wherein said movable indicator means is a color interface which moves relative to the length of said bar during the passage of time of the operating function being performed, said color interface distinguishable from the color of said bar.

11. (Amended) A broadcast data receiver according to claim 7 wherein said movable indicator means includes a plurality of characters or lines which become visible or invisible during the passage of time of the operating function being performed.

12. (Amended) A broadcast data receiver according to claim 1 wherein a text message is provided in addition to or as part of the generated display to indicate to the user that a selected operating function is being performed.

13. (Amended) A broadcast data receiver according to claim 1 wherein said display is generated on a screen when any of play, record, search receiver functions are being performed.

14. (Amended) A method of generating a display for a broadcast data having recording media on which received data can be stored for subsequent, selective retrieval, control means for controlling the operation of the recording media, processing means for processing of the received data to generate video and/or auxiliary data for display on a display screen, said method includes the steps of:

said receiver calculating the time for completion of an operating function selected by the user using said control means;

generating a display on the display screen representing, at least in part, the time for completion of said user-selected operating function; and

said generated display in whole or part altering in appearance during the passage of calculated time to indicate to the user the stage at any instant with respect to the start and/or completion of the selected function.

15. (Amended) A method according to claim 14 wherein said generated display includes a bar and an indicator means is provided to move in, on and/or adjacent the bar to indicate to the user the passage of time of the selected operating function.

16. (Amended) A method according to claim 15 wherein the movable indicator is an arrow or pointer, said arrow/pointer moving relative to the length of said bar during the passage of time of the operating function being performed.

17. (Amended) A method according to claim 15 wherein the movable indicator is a color interface which moves relative to the length of said bar during the passage of time of the operating function being performed, the color interface being distinguishable from the color of said bar.

18. (Amended) A method according to claim 15 wherein said indicator means includes a plurality of characters or lines which become visible or invisible during the passage of time of the operating function being performed.